

Date: Wed, 1 Dec 93 08:01:06 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1410
To: Info-Hams

Info-Hams Digest Wed, 1 Dec 93 Volume 93 : Issue 1410

Today's Topics:

(none)
Amateur Radio Elmers List Info and Administrivia
Calculating SWR
Changes to Amateur Radio Elmers Resource Directory
Dial/meter marking program
HDN Releases
Life is too short for 2 KW!!!!
LK-800-linear, info needed!
Repeater calling procedure (Was: Elm
The Power of Photons

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 1 Dec 93 14:54:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: (none)
To: info-hams@ucsd.edu

I would like to know how to "subscribe" to this list.

Thanks
Kevin Muenzler (WB5RUE)
muenzlerk@uthscsa.edu

Date: 1 Dec 93 12:00:17 GMT
From: nevada.edu!news.unomaha.edu!news@uunet.uu.net
Subject: Amateur Radio Elmers List Info and Administrivia
To: info-hams@ucsd.edu

Posted-By: auto-faq 3.1.1.3
Archive-name: radio/ham-radio/elmers/admin
Revision: 1.4 04/25/93 23:02:45
Changes: pit-manager.mit.edu is now rtfm.mit.edu

This administrivia file and the companion Amateur Radio Elmers Resource Directory are intended for non-commercial distribution via Usenet. Any other uses, please E-mail for permission.

A Brief Historical Overview:
+++++

If there is any one constant in the changing state of the communications art, it is that "Hams" (Amateur Radio Operators) have always been on the forefront of it. Rumors abound where the term "Ham" came from. Some of the more amusing are described at the end of this article.

Regardless of origin of the name, a "Ham" is universally recognizable as one who experiments in radio and communications.

Whether it be constructing a low-power CW radio with vacuum tubes, or designing TCP/IP packet networks, such experimentation has historically spilled over into the mainstream such as was the case with Edwin Armstrong, who developed the regenerative oscillator and FM radio, or General Curtis LeMay (W6EZV) who was instrumental in making Single-Sideband the communications standard for the Strategic Air Command (1947-1992, now reorganized into a joint command called StratComm) and eventually the U.S. Air Force. Although packet-switching techniques originated from DARPA (Defense Advanced Research Projects Agency) and the ARPANet, no one can deny the tremendous influence that amateurs have had in demonstrating the viability of TCP/IP and AX.25 communications via radio links. The efforts of AMSAT (the Amateur Satellite Corporation), including the development of many ham satellites and the low-orbiting Microsats (communications satellites no bigger than a breadbox that use store-and forward packet techniques), have certainly advanced the state-of-the-art in communications, one of the defined purposes of the Amateur Radio Service, as recognized by international treaty.

Since in many cases hams are writing "the book", there is often no "book" or other established reference for a beginner to refer to. Traditionally, information has been passed on from ham to ham via word-of-mouth. Like many of the traditional crafts, a variation of the

Master-Apprentice system has emerged, the Elmer-Novice relationship. Called "Elmers" because they are usually older and wiser, having the benefit of many years in the hobby, including several failed projects, and an electric shock or two, they have traditionally been the mainstay of amateur radio, and the source of many new hams, particularly those interested in working on emerging technologies.

Even more importantly, Elmers provided an outlet for the impatient newcomer who wanted "to know everything, and right away." Faced with such a request, a good Elmer will smile and proceed to lead the novice through some project or operating experience. Several hours, days, or weeks later, the novice would have his answers, but would have earned them. Even better, the sense of accomplishment would boost the novice's confidence and nudge him or her down the road to being a model, experienced ham operator.

Many present hams feel that such an experience is missing today. In today's hustle-bustle world, the response to such natural curiosity and desire to learn is, more often than not, "I'm too busy" or "RTFM." As a result, the quality of new hams declines and the knowledge and operating habits they develop in their first formative months and years leave much to be desired. And the very same hams who claim that they "can't understand the new generation" also, in almost the same breath, lament about the "decline of amateur radio."

What is an Elmer today?
+++++

An Elmer today is of any age, male or female, who has some expertise and is willing to share it with beginners. Elmers don't even need to be licensed amateurs, just people with knowledge in some area of electronics or communications technology.

What is a Usenet Elmer?
+++++

With the ever-widening scope of the Internet, and the amateur radio newsgroups on Usenet, the potential for Elmers to share their knowledge to a wide audience has never been greater. To that end, I have started to maintain a list of such Elmers. Volunteers need only send me their name, E-mail address, and area of expertise. I have set up an administrivia mailbox for this purpose (elmers-request@unomaha.edu, the default Reply-To: of this message).

Those desiring a more extensive list, or who need more specific assistance, are encouraged to contact Rosalie White, WA1STO, Educational Services Manager at the American Radio Relay League, 225 Main St., Newington, CT 06111 or via electronic mail addressed to

rwhite@arrl.org.

How may I obtain the latest copy of the Elmers List?

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There are currently 4 ways of obtaining the Elmers List. Any site at least reachable by Internet E-mail can use options 3 or 4:

1. Usenet News: The latest copy of the list can be found in the companion posting to this message, "Amateur Radio Elmers Resource Directory." Since the list is cross-posted to rec.radio.amateur.misc, rec.radio.info, rec.answers, and news.answers on the 1st of each month, with an expiration date 6 weeks into the future, there should always be a copy available at most news sites. Check your newsreader documentation for information about reading previously-read articles.

2. Anonymous FTP: If your site is directly connected to the Internet, you may retrieve the latest copy via File Transfer Protocol (FTP) from the following sites:

ftp.cs.buffalo.edu /pub/ham-radio/elmers*
rtfm.mit.edu /pub/usenet/news.answers/radio/ham-radio/elmers/*

3. Mailing-List: Since the list is cross-posted to rec.radio.info, the latest copy may be obtained from the mailing-list gateway for that newsgroup (along with many other informational articles about radio) when it is published each month. To subscribe, send E-mail to:

listserv@ucsd.edu

and in the BODY (not the Subject) of the message, write:

subscribe radio-info

The server may not be able to determine your return address. In that case write:

subscribe radio-info (your E-mail address)

You should get an acknowledgement very shortly.

4. Mail-Server: If you don't want to read through the entire gateway of rec.radio.info, or want a copy of the list right away, send E-mail to:

mail-server@rtfm.mit.edu

and in the BODY (not the Subject) of the message, write:

send usenet/news.answers/radio/ham-radio/elmers/admin
send usenet/news.answers/radio/ham-radio/elmers/list
send usenet/news.answers/radio/ham-radio/elmers/diff

and the latest copy of the list should be sent to you E-mail within 24 hours (the mail-server uses batch priority to reduce system demand).

How may I contribute to the Elmers List?
+++++

By using this resource, you are benefitting the net by obtaining assistance in the fastest and most efficient way possible. By volunteering to appear on this list, you are contributing to the good reputation of the radio-related newsgroups.

Thanks to all the volunteer Elmers, as well as courteous list users, for making this service a success.

--
73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu (personal mail)
elmers-request@unomaha.edu (Elmers List administrivia)

* Possible origins of the word HAM:

The acronym "Home Amateur Mechanic" or...

from the Cockney pronunciation of "L'amateur" or...

the initials of the founder of the American Radio Relay League, Hiram Maxim, W1AW (his actual middle name being Percy apparently notwithstanding) or...

from the call letters of one of the first amateur stations at Harvard, H.A.M. (please, no flames from W1XM at MIT)

Dale Mosby, N7PEX, offers the explanation that HAM must stand for "Hardly Any Money," considering the investment one could make in the hobby.

Knowledgeable individuals from the American Radio Relay League (ARRL), and other radio historians, seem to agree that the terms "Ham" and "Lid" (an inept operator) both originated with landline telegraphy. A "Ham" was a show-off and a "Lid" was a telegraph operator so inexperienced, he had to use a pot or can lid to rest his telegraph sounder on to properly copy the code.

As an interesting historical footnote, early telegraph operators may have been the first to experience the infamous curse of our communications age, Repetitive Stress (or "Carpal Tunnel") Syndrome (called "Glass Arm" in those days, which encouraged the invention of the semi-automatic or "bug" key).

(Larry E. McDonald, N6ZMB, wrote to point out another plausible origin, which doesn't necessarily contradict the ARRL version. The term "ham" may have been derived from "ham-fisted" or "ham-handed" to describe poor telegraph operators who were hired from the ranks of radio operators. Or maybe "ham-fisted" and "ham-handed" are derived from "ham." Who knows?)

Date: Tue, 30 Nov 1993 13:45:29 GMT
From: munnari.oz.au!spool.mu.edu!howland.reston.ans.net!cs.utexas.edu!utnut!torn!
nott!cunews!freenet.carleton.ca!Freenet.carleton.ca!ae517@network.ucsd.edu
Subject: Calculating SWR
To: info-hams@ucsd.edu

In a previous article, kchen@apple.com (Kok Chen) says:

>>>
>>>I am not trying to be mean, but did you sit a radio theory test for your
>>>amateur license ?
>
>>Yes, he did. SWR formulae are not on amateur tests in America.
>
>
>America as in the U. S. of A. or does that include Canada? The
>original poser of the question posted from Canada, I believe.
>
>We all know how easy the written tests are in the U.S., but don't
>the folks up in the great white north have to take real tests?
>
It *USED* to be a real test, essay type questions, but I think it's all
multiple-guess now. I've even heard we may be incorporating some of the
U.S. question pool into our exam(s)

73 de ve3uav/aa8lu

--

Date: 1 Dec 93 12:02:58 GMT
From: nevada.edu!news.unomaha.edu!news@uunet.uu.net
Subject: Changes to Amateur Radio Elmers Resource Directory

To: info-hams@ucsd.edu

Posted-By: auto-faq 3.1.1.3

Archive-name: radio/ham-radio/elmers/diff

(Note: This diff file is taken from the list body only.)

/usr/bin/diff -c (last month's) (this month's)

*** /u3/pschleck/faq/elmers/list.body.old Mon Nov 1 06:04:45 1993

--- /u3/pschleck/faq/elmers/list.body.new Wed Dec 1 06:00:04 1993

*** 1,4 ****

! Amateur Radio Elmers Resource Directory (as of 11/01/93)

+++++

David Andrews ZL2SX

--- 1,4 ----

! Amateur Radio Elmers Resource Directory (as of 12/01/93)

+++++

David Andrews ZL2SX

*** 363,368 ****

--- 363,378 ----

ampr.org IP Coordinator for Arizona subnet (44.124.xxx.xxx)

+ Owner of the Land-Mobile-Radio Mailing List

+

+ To Add Yourself To This List, Please Send Electronic Mail To:

+

+ listserv@stat.com

+

+ And Include The Command:

+

+ subscribe land-mobile-radio

+

+++++

Thomas Edwards N3HAU

*** 495,501 ****

mailing-list, send E-mail to listserv@gttri01.gatech.edu with "subscribe
acc-1 your-name" in the body of the message. An acknowledgement and
welcome message will follow. Administrivia, policy questions,

! or other queries, may be directed to me.

(see also Mike Shirley WB6WUI)

--- 505,511 ----

mailing-list, send E-mail to listserv@gtri01.gatech.edu with "subscribe
acc-l your-name" in the body of the message. An acknowledgement and
welcome message will follow. Administrivia, policy questions,
! or other queries may be directed to me.

(see also Mike Shirley WB6WUI)

*** 626,631 ***

--- 636,670 ----

+++++

+ | | | Deputy Manager, Field Services, ARRL.
+ | |____| The ARRL Amateur Radio Emergency Service, the ARRL
+ | uck | |urder National Traffic System, The Amateur Auxiliary to
+ ----- | | the FCC's Field Operations Bureau, the ARRL
+ KY1T Field Organization and the ARRL Monitoring System.

+ -----

+ lhurder@arrl.org Prodigy - MGTS39A, BIX - ARRL,
+ MCI Mail - RPALM, MCI Mail - "ARRL", America On Line - "ARRL HQ"
+ Compuserve - 70007,3373 (ARRL HQ) -- Genie ARRL.HQ

+
+ Matters relating to the ARRL field organization, including
+ emergency communications, traffic handling, referrals to
+ local Technical Coordinators, the Amateur Auxiliary to the
+ FCC's Field Operations Bureau, ARRL Volunteer Counsels, Public
+ Information Coordinators, etc.

+
+ Matters relating to Amateur Radio and the disabled/handicapped.
+ Suggestions on how computers and Amateur Radio can be easily
+ and very inexpensively) combined to assist the disabled.

+
+ At the very least, I can be a forwarding point to the others here at
+ ARRL HQ who CAN answer specific questions that are not covered above.

+
+ FIELDORG is an electronic mail reflector dedicated to hams interested
+ in any and all types of ARRL Field Organization matters. To subscribe,
+ send an E-mail message to my address above.

+
+ ++++++

+
 Bart J. Jahnke, KB9NM | USENET: bjahnke@arrl.org
 Manager, ARRL Volunteer |
 Examiner Program | BIX: ARRL

*** 845,850 ***
--- 884,897 ----

+++++

+ John Moore 7525 Clearwater Pkwy, Scottsdale, AZ 85253 USA
+ john@anasazi.com Amateur call:NJ7E Civil Air Patrol:Thunderbird 381
+ Voice: day or eve:(602) 951-9326 FAX:602-861-7642 (by prior arrangement)

+
+ Civil Air Patrol

+
+ ++++++

+ Tom Moore K1KAY

[no E-mail address at this time]

*** 1058,1063 ***
--- 1105,1126 ----

Please direct all rec.radio.info submissions to
rec-radio-info@ve6mgs.ampr.ab.ca and all feedback and administrivia to
rec-radio-request@ve6mgs.ampr.ab.ca.

+
+ ++++++

+
+ Andrew Sargent N8OFS, AAN5HJT

+
+ andrews@fms.com
+ andrews@telemax.com

+
+ My primary interests include: 6M AM, 10GHz, 5.65-5.925 GHz, 3.3-3.5
+ GHz, the fact of being a No-Code is not a crime, 2M AM, 2M FM QRP SIMP,
+ packet radio experimentation, mobile operations, NTS, VHF Contesting,
+ and of course... Army Mars.

+
+ If your interested in Army MARS, e-mail me. If your interested in Air
+ Force or Navy MARS, e-mail me and I will send you a list of those
+ members which I have compiled. Try to decide, then let me know.

+++++

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73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu (personal mail)
elmers-request@unomaha.edu (Elmers List administrivia)

Date: 1 Dec 93 14:28:59 GMT
From: news-mail-gateway@ucsd.edu
Subject: Dial/meter marking program
To: info-hams@ucsd.edu

>Does anybody know of a program that will generate Postscript files for
>printing labels for dials, rotary switches, meters, etc.? I thought I

probably any drafting program that can produce PostScript output would work as
probably would Don Lancaster's Gonzo PowerTools. Also things like Adobe
Illustrator probably could fill the bill. also possible would be something
like Adobe Streamline that could convert a scanned image of a desired meter
face into PostScript code too.

/Helvetica findfont 10 scalefont setfont
200 100 moveto
(just how deep do you want to go?) show
showpage
^D

bill n.

Date: Sun, 28 Nov 1993 17:24:08
From: pacbell.com!sgiblab!spool.mu.edu!sol.ctr.columbia.edu!news.kei.com!
news.oc.com!utacfd.uta.edu!rwsys!ocitor!FredGate@network.ucsd.edu
Subject: HDN Releases
To: info-hams@ucsd.edu

The following files were processed Sunday 11-28-93:

HAMANT [HAM: Antenna design and calculation programs]

SOL252.ZIP (61493 bytes) Prop Forecast Utility Vd2.5, by
WA4TTK

61493 bytes in 1 file(s)

HAMNEWS [HAM: Bulletins and Newsletters]

RTDX1126.LZH (1679 bytes) RTTY DX Bulletin 11/26/93

1679 bytes in 1 file(s)

HAMPACK [HAM: Packet Communications programs]

DSPTOR.ZIP (56109 bytes) TI 320C26 DSK-based modem
W/PACTOR, by KC7WW

56109 bytes in 1 file(s)

HAMSAT [HAM: Satellite tracking and finding programs]

ARLK049.LZH (2020 bytes) ARRL Keps 11/27/93
OBS323.LZH (5508 bytes) Amsat Orbital Elements # 323
11/19/93
OBS328.LZH (6679 bytes) Amsat Orbital Elecmets # 328
11/24/93

14207 bytes in 3 file(s)

HAMUTIL [HAM: Radio operating aids]

GEOCLK51.ZIP (312762 bytes) GeoClock V5.1, by John Ahlgren
HB305.EXE (170880 bytes) HamBase V3.05 beta. Display Beam
Headings & grids. by J-Comm
HCALL110.ZIP (10500 bytes) V1.10 Callsign Interface PCBoard
V15.0<->Sam Database, by WD0GRC

494142 bytes in 3 file(s)

Total of 627630 bytes in 9 file(s)

Files are available via Anonymous-FTP from <ftp.fidonet.org>
IP NET address 140.98.2.1

Directories are:

pub/fidonet/ham/hamnews (Bulletins)
/hamant (Antennas)
/hamsat (Sat. prg/Amsat Bulletins)
/hampack (Packet)

/hamelec (Formulas)
/hamtrain (Training Material)
/hamlog (Logging Programs)
/hamcomm (APLink/JvFax/Rtty/etc)
/hammods (Equip modification)
/hamswl (SWBC Skeds/Frequencies)
/hamscan (Scanner Frequencies)
/hamutil (Operating aids/utils)
/hamsrc (Source code to programs)
/hamdemo (Demos of new ham software)
/hamnos (TCP/IP and NOS related software)

Files may be downloaded via land-line at (214) 226-1181 or (214) 226-1182.
1.2 to 16.8K, 23 hours a day .

When ask for Full Name, enter: Guest;guest <return>

lee - wa5eha
Ham Distribution Net

* Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)

Date: 1 Dec 93 13:33:55 GMT
From: ogicse!uwm.edu!math.ohio-state.edu!mane.cgrg.ohio-state.edu!
aus1.robins.af.mil!wrdis02.robins.af.mil!lakeith@network.ucsd.edu
Subject: Life is too short for 2 KW!!!!
To: info-hams@ucsd.edu

Keskinen Petri (oh3mep@lehtori.cc.tut.fi) wrote:

Stuff deleted...

: Pete

: * Life is too short for QRP! *
No! Life is too short for 2 KW amps that splatter halfway up the
band!

Life is too short for disparaging remarks about other operating modes!

Life is too short for remarks that contribute to polarization of the
ham radio community.. I respect your right to use an amp when
conditions require it. Please don't make fun of the folks who prefer
the challenge of making the same contact with the minimum amount of
power..

73,

Larry, KQ4BY

Date: 30 Nov 1993 11:09:17 +0200
From: pacbell.com!sgiblab!spool.mu.edu!howland.reston.ans.net!pipex!sunic!
news.funet.fi!butler.cc.tut.fi!lehtori.cc.tut.fi!not-for-mail@network.ucsd.edu
Subject: LK-800-linear, info needed!
To: info-hams@ucsd.edu

Hello all!

I need some info about LK-800 HF-linear.

I have never seen any details on magazines, but

I've heard that it's a big one. Which tubes does it have?

How much power does it give and does it give full power
with 100W drive? Which bands does it cover? Which kind of
power supply it has? And of course final question, how much
it costs there in USA?

Pete

* Life is too short for QRP! *

Date: 30 Nov 1993 02:54:00 -0500
From: digex.net!access!bote@uunet.uu.net
Subject: Repeater calling procedure (Was: Elm
To: info-hams@ucsd.edu

gilbaronw@mn@delphi.com (Gilbert Baron) writes:

>I never did understand why CQ on the repeater is frowned upon.

>know it is frowned on but that is because most repeaters are more of a

>private clique than anything else and people don't want to talk to anyone

>that is not a part of that and they hate to be asked to because it makes them

>realize that they are ignoring people.

I'll leave it up to Jay to address that last sentence :)

As I said previously, "CQ" is direct and to the point.

The reason long CQs are frowned on is that they
are totally unnecessary, a point which some ARRL
publication makes (thankfully!). Since everyone's
receiver opens within about 500milliseconds,

you already have them tuned in, unlike HF; you merely need to grab their attention with a brief statement that you wish to talk. If they want to, they will; if not...that's what synthesized radios are for! :)

Local stir-em-up method of the year: "Who's on the BOX tonight, from WB80FR, ha, ha, ha!!" (The Insomnia Net)

--

finger bote@access.digex.net
Exiting Kill Mailboxes

Date: Tue, 30 Nov 1993 09:50:52 GMT
From: goanna.cs.rmit.oz.au!aggedor.rmit.EDU.AU!harbinger.cc.monash.edu.au!
yeshua.marcam.com!news.kei.com!sol.ctr.columbia.edu!math.ohio-state.edu!
sdd.hp.com!apollo.hp.com!@munnnari.oz.au
Subject: The Power of Photons
To: info-hams@ucsd.edu

Did he then go on to explain how a photon torpedo worked ?

Cheers,
David GM4ZNX

Date: Tue, 30 Nov 1993 13:07:04 -0500
From: uniwa!harbinger.cc.monash.edu.au!msuinfo!uwm.edu!vixen.cso.uiuc.edu!
howland.reston.ans.net!sol.ctr.columbia.edu!hamblin.math.byu.edu!yvax.byu.edu!
cunyvm!rohvm1!rohvm1.1.@munnnari.oz.au
To: info-hams@ucsd.edu

References <holland-291193181932@right.dom.uab.edu>, <2dfjff0\$7is@oak.oakland.edu>,
<36071@ksr.com>.

Subject : Re: using a radio off frequency in emergencies

In article <36071@ksr.com>, jfw@ksr.com (John F. Woods) wrote, in part:

> But it turns out that the Communications Act of 1934 authorizes *anyone*, not
> just hams, to use any radio at their disposal in an emergency involving
> possible loss of life if normal means of communication are unavailable.

Yup. BUT...(and I think I said this before, but it may have been a private note rather than a posting) many localities have their own laws against POSSESSION of an unauthorized device capable of transmitting on the public

safety frequencies. These were passed to control the "bananas" who interfere with police and fire transmissions: if you can't catch them in the act, at least you can take away their toys. Unfortunately, the HT in question probably violated such a law in the jurisdiction in question.

Thus the transmission was okay under federal law. The possession was illegal under local law. These laws appear to be constitutional and not pre-empted by any federal law.

Philadelphia, at least, has such a law on the books, and I suspect they enforce it when they have the opportunity. Were I to have such a device, I sure wouldn't wave my hand and say, "Me, me!" when the cops asked who placed the call. :-)

73 de John, W3ZID

End of Info-Hams Digest V93 #1410

